iology

r splenic T-cells. Increased Ig as measured by accretion only as shown by studying de novo le ellular and secreted Ig. The system was used norease in Ig synthesis. Marrack's group are identical to y-interferon. Using bactitat y-interferon per se is totally ineffective that y-interferon per se is totally ineffective. B cell differentiation of closed y-interferon B cell differentiation factors lead to tome if doses of BCDFs were used. Kinetic studies "priming effect", making cells more fecepoing on factors.

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dies against a human B cell th for monitoring and therapy

ITZ', and G. J. HAMMERLING'

shomas were found to be of clonal origin. In a proliferation of a single B lymphocyte clone, a.g. restricted to the expression of identical tures (idiotype). Therefore, the unique idiotype ite tumor-specific marker against which antied.

has the immunoglobulin molecule is expressed mounts. In order to rescue immunoglobulin ted. Peripheral blood mononuclear cells from were fused with mouse myeloma cells ined 275 secreted human immunoglobulin. tumor cell isotype (γ, λ). One representative everal times, and propagated in bulk culture. ant was purified by affinity chromatography. antimes, and hybridomas were general times. At least 3 different monoclonal antibodies lentified. Specificity of these antibodies was ion assay. The 3 antibodies react exclusively curvity with unrelated immunoglobulins was re actually individual-specific.

red for quantitative detection of idiotype i's serum during the course of disease. Bone residual tumor cells after chemotherapy. The for autologous bone marrow transplantation

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Immunological and functional properties of two monoclonal

antibodies against human C5

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Two monoclonal antibodies designated 4C6 and 3B2 were produced by immunizing Balb/c 1C6) or DBA2 mice (3B2) repeatedly with human C5 purified according to DESSAUER et al. Immunobiol., in press) and following the fusion of the monse spleen cells with NS-1 (4C6) or 135.Ag8.653 (3B2) lymphoma cells respectively. Hybridomas have been selected according to results of ELISA and RIA measurements with insolubilized human C5. They were cloned the results of ELISA and RIA measurements with insolubilized human C5. They were cloned the president of the pre

The antibodier (ab) in one of the lines (4C6) reacted with a 200 kD protein after 5D8-PAGE and immunoblorting (1B) of unreduced human C5, whereas line 3B2 reacted with a 60 kD implied chain, which is suspected to represent a split product of C3, since its proportion points with time during the storage of C5. Line 4C6 failed to react with reduced C5 in the 1B analysis, in contrast line 3B2 reacted even after reduction of C5 with the 60 kD band. Functionally this antibody (3B2) inhibited the 3H serotonin release from guinea pig platelets induced by hog C5a and surprisingly also the lysis of chicken erythrocytes by C56 + C7, C8, C9 and the lysis of EAC1-5 by C6-9 or EAC1-6 by C7-9, but failed to inhibit the interaction of C5 with EAC1423 in the presence of C8-9 in excess. The other antibody (4C6), after preincubation with C5 strongly inhibited the C5 dependent lytic activity when studied with EAC1423 + C6-9 and also diminished the lysis of ChE by C56 and C7-9, but failed to react with EAC1-6.

Our findings suggest that one of the monoclonal ab (4C6) detects an epitope on the C5 molecule related to its reaction with target membranes. This epitope seems to be hidden or without further functional role on EAC1-5 or EAC1-6.

The other monoclonal ab (3B2) displaying functional inhibitory activities puzzles by its functional inhibitory effect on C52 dependent serotonin release on one side and its reaction with cell-bound C5 or free and bound C5b6. Further studies are needed to clarify, whether these contradictory results are due to the possibility, that C5a is produced by cleavage but remains noncovalently bound to C5b.

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144. Potentiation of antibody-dependent cellular cytotoxicity and chemiluminescence in human neutrophils by platelet activating factor

H. Mossmann, U. Bamberger, B. A. Velev, D. K. Hammer

Human neutrophils (PMN) purified by elutriation from blood of heathhy volunteers were rested in the presence of platelet activating factor (PAF) for both antibody-dependent cellular sytotoxicity (ADCC) against antibody coated erythrocytes and the oxidative response as

100 uglant

3B2